

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
January 2004

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Publication Date: June 29, 2004

Table of Contents

	Page
Organization Page	ii
Table of Contents.....	iii
Monthly Highlights.....	1
 Oroville Field Division Water Operations 	
Table	Page
1 Antelope Lake, Daily Operation.....	2
2 Frenchman Lake, Daily Operation.....	3
3 Lake Davis, Daily Operation	4
4 Lake Oroville, Daily Operation.....	5
5 Thermalito Forebay, Including Diversion Pool and Power Canal, Daily Operation	6
6 Thermalito Afterbay, Daily Operation.....	7
7 Oroville-Thermalito Complex, Water Temperature Data	8
 Delta Field Division Water Operations 	
8 Aqueduct Operation, Delta Field Division	9
9 Delta Field Division Plant Data.....	10
10 Clifton Court Forebay, Daily Operation of Gates.....	11
11 Governor Edmund G. Brown California Aqueduct, Delta Field Division, Monthly Deliveries	12
12 South Bay Aqueduct, Delta Field Division, Monthly Deliveries.....	13
13 Lake Del Valle, Daily Operation.....	14
 San Luis Field Division Water Operations 	
14 Consolidated State-Federal O'Neill Forebay, Daily Operations.....	15
15 Consolidated State-Federal San Luis Reservoir, Daily Operations	16
16 San Luis Field Division Plant Data	17
17 Consolidated State-Federal Los Banos Reservoir, Daily Operations	18
18 Consolidated State-Federal Little Panoche Reservoir, Daily Operations	19
19 Governor Edmund G. Brown California Aqueduct, San Luis Field Division, Monthly Deliveries	20
20 Consolidated State-Federal San Luis Canal, Daily Operations	22
 San Joaquin Field Division Water Operations 	
21 San Joaquin Field Division Plant Data.....	23
22 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries	24

Table		Page
23	Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries (Coastal Branch).....	27
	Southern Field Division Water Operations	
24	Southern Field Division Plant Data.....	28
25	Pyramid Lake, Daily Operation.....	29
26	Elderberry Forebay, Daily Operation	30
27	Castaic Lake, Daily Operation.....	31
28	Governor Edmund G. Brown California Aqueduct, Southern Field Division,	
	Monthly Deliveries (West Branch).....	32
29	Silverwood Lake, Daily Operation.....	33
30	Lake Perris, Daily Operation.....	34
31	Governor Edmund G. Brown California Aqueduct, Southern Field Division,	
	Monthly Deliveries (East Branch).....	35
	Water Quality Operations	
32	Water Quality at Selected SWP Locations	37
33	Water Quality at Selected Delta Stations	38
34	Pesticides, Herbicides, and Other Organic Substances Detected in the SWP	39
	Energy Operations	
35	Oroville and Delta Field Divisions Energy Data	40
36	San Luis Field Division Energy Data	41
37	San Joaquin Field Division Pumping Plant Energy Load Data.....	42
38	Southern Field Division Energy Data.....	43

MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of January 2004.

Statewide precipitation was about 85 percent of average for the 2003-2004 water year through January 31. Statewide runoff was 75 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: http://cdec.water.ca.gov/snow_rain.html.

End of month total State share of storage in major SWP reservoirs was about 3.94 MAF, compared with about 3.42 MAF at this time in 2003. End of month storage at Lake Oroville was about 2.46 MAF as compared to 2.19 MAF last year. The State's share of San Luis Reservoir storage was about 810 TAF, as compared with 593 TAF at this time last year. End of month combined storage in our southern reservoirs was about 662 TAF, compared with about 634 TAF at this time last year.

Through January, SWP water deliveries for 2004 were about 188 TAF. This is a combination of project, transfer, and exchange waters. This is 73 TAF more than delivered during the same period in 2003.

Excess conditions continue with no concerns in the Delta. However, very heavy weed debris wreaked havoc with Skinner Fish Facility operations. Flat schedules and lower pumping targets were required just to provide opportunities for cleaning. The divider wall between bays 3A and 3B failed and was removed

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Dec 31	4993.16	15,191									
1	4993.25	15,258	67	20	0	0	0	0	20	54	
2	4993.22	15,236	-22	20	0	0	0	0	20	9	
3	4993.22	15,236	0	20	0	0	0	0	20	20	
4	4993.16	15,191	-45	20	0	0	0	6	26	3	
5	4993.16	15,191	0	20	0	0	0	0	20	20	
6	4993.14	15,177	-14	20	0	0	0	0	20	13	
7	4993.12	15,162	-15	20	0	0	0	0	20	12	
8	4993.07	15,125	-37	20	0	0	0	3	23	4	
9	4993.04	15,103	-22	20	0	0	0	0	20	9	
10	4993.02	15,088	-15	20	0	0	0	0	20	12	
11	4993.01	15,081	-7	20	0	0	0	0	20	17	
12	4993.01	15,081	0	20	0	0	0	0	20	20	
13	4992.99	15,066	-15	20	0	0	0	0	20	13	
14	4992.96	15,037	-29	20	0	0	0	2	22	8	
15	4992.94	15,030	-7	20	0	0	0	0	20	17	
16	4992.89	14,993	-37	20	0	0	0	5	25	6	
17	4992.87	14,979	-14	20	0	0	0	0	20	13	
18	4992.87	14,979	0	20	0	0	0	0	20	20	
19	4992.83	14,949	-30	20	0	0	0	2	22	7	
20	4992.80	14,928	-21	20	0	0	0	0	20	9	
21	4992.77	14,906	-22	20	0	0	0	0	20	9	
22	4992.73	14,877	-29	20	0	0	0	2	22	7	
23	4992.74	14,884	7	20	0	0	0	0	20	24	
24	4992.69	14,847	-37	20	0	0	0	3	23	4	
25	4992.66	14,826	-21	20	0	0	0	0	20	9	
26	4992.62	14,797	-29	20	0	0	0	2	22	7	
27	4992.62	14,797	0	20	0	0	0	0	20	20	
28	4992.60	14,782	-15	15	0	0	0	1	16	9	
29	4992.60	14,782	0	10	0	0	0	0	10	10	
30	4992.63	14,804	22	10	0	0	0	0	10	21	
31	4992.63	14,804	0	10	0	0	0	0	10	10	
Total cfs-days				---	585	0	0	0	26	611	416
Total ac-ft				-387	1,160	0	0	0	52	1,212	825

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Dec 31	5564.84	25,988									
1	5564.98	26,125	137	2	0	0	0	0	2	71	
2	5564.98	26,125	0	2	0	0	0	0	2	2	
3	5564.99	26,134	9	2	0	0	0	0	2	6	
4	5564.98	26,125	-9	2	0	0	0	3	5	0	
5	5565.00	26,144	19	2	0	0	0	0	2	12	
6	5565.02	26,164	20	2	0	0	0	0	2	12	
7	5565.01	26,154	-10	2	0	0	0	3	5	0	
8	5565.02	26,164	10	2	0	0	0	0	2	7	
9	5565.01	26,154	-10	2	0	0	0	3	5	0	
10	5565.04	26,184	30	2	0	0	0	0	2	17	
11	5565.06	26,204	20	2	0	0	0	0	2	12	
12	5565.05	26,194	-10	2	0	0	0	3	5	0	
13	5565.04	26,184	-10	2	0	0	0	3	5	0	
14	5565.05	26,194	10	2	0	0	0	0	2	7	
15	5565.08	26,223	29	2	0	0	0	0	2	17	
16	5565.09	26,233	10	2	0	0	0	0	2	7	
17	5565.08	26,223	-10	2	0	0	0	3	5	0	
18	5565.09	26,233	10	2	0	0	0	0	2	7	
19	5565.12	26,263	30	2	0	0	0	0	2	17	
20	5565.12	26,263	0	2	0	0	0	0	2	2	
21	5565.12	26,263	0	2	0	0	0	0	2	2	
22	5565.13	26,273	10	2	0	0	0	0	2	7	
23	5565.13	26,273	0	2	0	0	0	0	2	2	
24	5565.12	26,265	-8	2	0	0	0	2	4	0	
25	5565.11	26,253	-12	2	0	0	0	4	6	0	
26	5565.14	26,283	30	2	0	0	0	0	2	17	
27	5565.21	26,352	69	2	0	0	0	0	2	37	
28	5565.19	26,332	-20	2	0	0	0	8	10	0	
29	5565.21	26,352	20	2	0	0	0	0	2	12	
30	5565.21	26,352	0	2	0	0	0	0	2	2	
31	5565.20	26,344	-8	2	0	0	0	3	5	1	
Total cfs-days				---	62	0	0	35	97	276	
Total ac-ft				356	123	0	0	69	192	548	

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Dec 31	5764.81	48,734									
1	5764.80	48,703	-31	10	0	0	0	6	16	0.37	
2	5764.79	48,662	-41	10	0	0	0	12	22	1.33	
3	5764.78	48,632	-30	10	0	0	0	6	16	0.88	
4	5764.77	48,602	-30	10	0	0	0	6	16	0.88	
5	5764.76	48,573	-29	10	0	0	0	6	16	1.38	
6	5764.75	48,543	-30	10	0	0	0	6	16	0.88	
7	5764.74	48,454	-89	50	0	0	0	3	53	8.13	
8	5764.71	48,425	-29	50	0	0	0	3	53	38.38	
9	5764.69	48,366	-59	50	0	0	0	3	53	23.25	
10	5764.66	48,277	-89	50	0	0	0	2	52	7.13	
11	5764.64	48,218	-59	50	0	0	0	2	52	22.25	
12	5764.61	48,130	-88	50	0	0	0	2	52	7.63	
13	5764.59	48,071	-59	50	0	0	0	2	52	22.25	
14	5764.57	48,012	-59	50	0	0	0	2	52	22.25	
15	5764.54	47,924	-88	50	0	0	0	2	52	7.49	
16	5764.51	47,836	-88	50	0	0	0	2	52	7.63	
17	5764.48	47,748	-88	50	0	0	0	2	52	7.63	
18	5764.46	47,689	-59	50	0	0	0	2	52	22.25	
19	5764.44	47,631	-58	50	0	0	0	2	52	22.76	
20	5764.42	47,572	-59	50	0	0	0	2	52	22.25	
21	5764.40	47,514	-58	50	0	0	0	2	52	22.76	
22	5764.38	47,455	-59	50	0	0	0	2	52	22.25	
23	5764.37	47,426	-29	50	0	0	0	2	52	37.38	
24	5764.36	47,397	-29	50	0	0	0	2	52	37.38	
25	5764.34	47,339	-58	50	0	0	0	2	52	22.76	
26	5764.32	47,280	-59	50	0	0	0	2	52	22.25	
27	5764.30	47,222	-58	50	0	0	0	2	52	22.76	
28	5764.26	47,106	-116	50	0	0	0	10	60	1.52	
29	5764.24	47,048	-58	50	0	0	0	2	52	22.76	
30	5764.22	46,990	-58	50	0	0	0	2	52	22.76	
31	5764.20	46,932	-58	41	0	9	0	2	52	22.76	
Total cfs-days				---	1,301	0	9	0	103	1,413	
Total ac-ft				-1,802	2,581	0	18	0	204	2,802	
										1,000	

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Dec 31	804.96	2,248,197								
	1 806.50	2,265,930	17,733	9,186	2	64	0	9,252	0	26,985
	2 806.94	2,271,015	5,085	11,943	2	0	0	11,945	0	17,030
	3 807.53	2,277,845	6,830	7,351	2	14	0	7,367	0	14,197
	4 807.89	2,282,020	4,175	7,698	2	29	0	7,729	0	11,904
	5 808.00	2,283,297	1,277	10,177	2	50	0	10,229	0	11,506
	6 808.22	2,285,852	2,555	8,768	2	43	0	8,813	0	11,368
	7 808.75	2,292,015	6,163	7,636	2	22	0	7,660	0	13,823
	8 809.06	2,295,625	3,610	8,770	2	0	0	8,772	0	12,382
	9 809.58	2,301,690	6,065	7,685	2	29	0	7,716	0	13,781
	10 810.60	2,313,618	11,928	3,515	2	7	0	3,524	0	15,452
	11 811.49	2,324,061	10,443	3,971	2	51	0	4,024	0	14,467
	12 812.17	2,332,063	8,002	4,561	2	44	0	4,607	0	12,609
	13 812.82	2,339,729	7,666	4,852	2	15	0	4,869	0	12,535
	14 813.34	2,345,874	6,145	4,889	2	22	0	4,913	0	11,058
	15 814.04	2,354,164	8,290	4,623	3	7	0	4,633	0	12,923
	16 817.74	2,362,475	8,311	3,821	3	0	0	3,824	0	12,135
	17 815.11	2,366,876	4,401	7,230	3	15	0	7,248	0	11,649
	18 815.80	2,375,098	8,222	3,345	3	22	0	3,370	0	11,592
	19 816.21	2,379,993	4,895	5,827	3	22	0	5,852	0	10,747
	20 816.57	2,384,297	4,304	7,182	3	7	0	7,192	0	11,496
	21 817.03	2,389,804	5,507	5,614	3	52	0	5,669	0	11,176
	22 817.71	2,397,961	8,157	2,909	3	66	0	2,978	0	11,135
	23 818.26	2,404,573	6,612	3,709	3	22	0	3,734	0	10,346
	24 818.79	2,410,956	6,383	4,310	3	22	0	4,335	333	10,385
	25 819.54	2,420,009	9,053	3,001	3	7	0	3,011	2,437	9,627
	26 820.12	2,427,028	7,019	3,811	3	60	0	3,874	1,991	8,902
	27 820.89	2,436,372	9,344	3,020	3	15	0	3,038	0	12,382
	28 821.37	2,442,210	5,838	4,169	3	45	0	4,217	0	10,055
	29 821.88	2,448,423	6,213	4,724	3	30	0	4,757	0	10,970
	30 822.27	2,453,182	4,759	4,548	3	15	0	4,566	0	9,325
	31 822.74	2,458,925	5,743	1,516	3	30	0	1,549	0	7,292
Total				210,728	174,361	79	827	0	175,267	4,761
										381,234

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

January 2004

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County 4/	Thermalito Irrigation District	Releases To River 5/	Hyatt Powerplant Pumpback	
Dec 31	23,347										
1	23,646	299	9,186	514	0	9,374	2	0	1,282	0	1,257
2	23,928	282	11,943	591	0	11,235	2	0	1,252	0	237
3	23,871	-57	7,351	401	0	6,640	3	0	1,248	0	82
4	23,913	42	7,698	466	0	7,014	3	0	1,244	0	139
5	23,770	-143	10,177	510	0	9,748	3	0	1,247	0	168
6	23,713	-57	8,768	510	0	8,063	3	0	1,254	0	-15
7	24,016	303	7,636	609	0	6,883	3	0	1,258	0	202
8	23,941	-75	8,770	415	0	8,233	3	0	1,242	0	218
9	24,015	74	7,685	506	0	7,170	3	0	1,249	0	305
10	23,965	-50	3,515	514	0	2,907	3	0	1,240	0	71
11	23,682	-283	3,971	508	0	3,565	3	0	1,247	0	53
12	24,071	389	4,561	506	0	4,506	3	0	1,256	0	1,087
13	23,618	-453	4,852	508	0	5,057	3	0	1,258	0	505
14	23,808	190	4,889	496	0	3,877	3	0	1,246	0	-69
15	23,725	-83	4,623	319	0	4,087	3	0	1,247	0	312
16	23,972	247	3,821	508	0	2,908	3	0	1,246	0	75
17	24,045	73	7,230	538	0	6,526	3	0	1,248	0	82
18	24,361	316	3,345	482	0	2,441	3	0	1,245	0	178
19	24,131	-230	5,827	508	0	5,512	3	0	1,245	0	195
20	23,959	-172	7,182	508	0	6,755	3	0	1,239	0	135
21	24,146	187	5,614	508	0	4,780	3	0	1,233	0	81
22	23,849	-297	2,909	514	0	2,514	3	0	1,237	0	34
23	23,744	-105	3,709	506	0	3,178	3	0	1,245	0	106
24	23,396	-348	4,310	507	0	3,624	3	0	1,255	333	50
25	23,774	378	3,001	507	3,536	3,183	3	0	1,243	2,437	200
26	23,889	115	3,811	516	1,767	2,814	3	0	1,249	1,991	78
27	25,023	1,134	3,020	507	0	582	3	0	2,237	0	429
28	22,744	-2,279	4,169	507	0	3,370	3	0	3,645	0	63
29	23,869	1,125	4,724	507	0	486	3	1	3,602	0	-14
30	23,216	-653	4,548	507	0	2,468	3	1	3,209	0	-27
31	22,894	-322	1,516	507	1,817	1,242	3	1	2,812	0	-104
Total		-453	174,361	15,510	7,120	150,742	91	3	47,960	4,761	6,113

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ Includes 1 AF of entitlement water to Del Oro WD and 90 AF to Cal Water.

5/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Dec 31	127.51	24,383											
1	128.76	28,155	3,772	9,374	1,345	3	426	274	3,690	0	136	4,972	
2	130.39	33,460	5,305	11,235	1,347	3	426	274	3,690	0	-190	4,942	
3	130.60	34,175	715	6,640	1,345	3	425	272	3,690	0	-190	4,938	
4	130.90	35,208	1,033	7,014	1,343	3	425	272	3,669	0	-269	4,913	
5	132.03	39,229	4,021	9,748	1,345	3	425	270	3,690	0	6	4,937	
6	132.59	41,297	2,068	8,063	1,345	4	426	274	3,690	0	-256	4,944	
7	132.95	42,652	1,355	6,883	1,345	3	426	274	3,669	0	189	4,927	
8	133.52	44,840	2,188	8,233	1,347	3	425	273	3,689	0	-308	4,931	
9	133.93	46,444	1,604	7,170	1,347	3	425	274	3,669	0	152	4,918	
10	133.28	43,912	-2,532	2,907	1,343	3	423	268	3,352	0	-50	4,592	
11	132.86	42,311	-1,601	3,565	1,345	3	423	274	3,055	0	-66	4,302	
12	132.70	41,709	-602	4,506	1,347	3	423	274	2,797	0	-264	4,053	
13	132.83	42,198	489	5,057	1,346	3	425	274	2,460	0	-60	3,718	
14	132.62	41,409	-789	3,877	1,345	3	425	274	2,261	0	-358	3,507	
15	132.54	41,110	-299	4,087	1,345	4	423	226	2,261	0	-127	3,508	
16	132.21	39,888	-1,222	2,908	1,299	3	434	73	2,241	0	-80	3,487	
17	132.78	42,010	2,122	6,526	1,269	0	444	0	2,241	0	-450	3,489	
18	132.30	40,220	-1,790	2,441	1,265	0	442	0	2,241	0	-283	3,486	
19	132.79	42,047	1,827	5,512	827	0	444	0	2,241	0	-173	3,486	
20	133.71	45,580	3,533	6,755	331	0	446	0	2,261	0	-184	3,500	
21	134.10	47,116	1,536	4,780	343	0	444	0	2,241	0	-216	3,474	
22	133.93	46,444	-672	2,514	335	0	448	0	2,241	0	-162	3,478	
23	134.10	47,116	672	3,178	111	0	107	0	2,241	0	-47	3,486	
24	134.37	48,190	1,074	3,624	0	0	0	0	2,261	0	-289	3,516	
25	133.65	45,345	-2,845	3,183	0	0	0	0	2,261	3,536	-231	3,504	
26	133.30	43,989	-1,356	2,814	0	0	0	0	2,261	1,767	-142	3,510	
27	132.93	42,576	-1,413	582	0	0	0	0	2,142	0	147	4,379	
28	133.63	45,267	2,691	3,370	0	0	0	0	595	0	-84	4,240	
29	133.73	45,658	391	486	0	0	0	0	139	0	44	3,741	
30	134.26	47,751	2,093	2,468	0	0	0	0	383	0	8	3,592	
31	133.90	46,326	-1,425	1,242	0	0	0	0	785	1,817	-65	3,597	
Total				21,943	150,742	25,960	50	9,580	4,120	78,107	7,120	-3,862	126,067

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

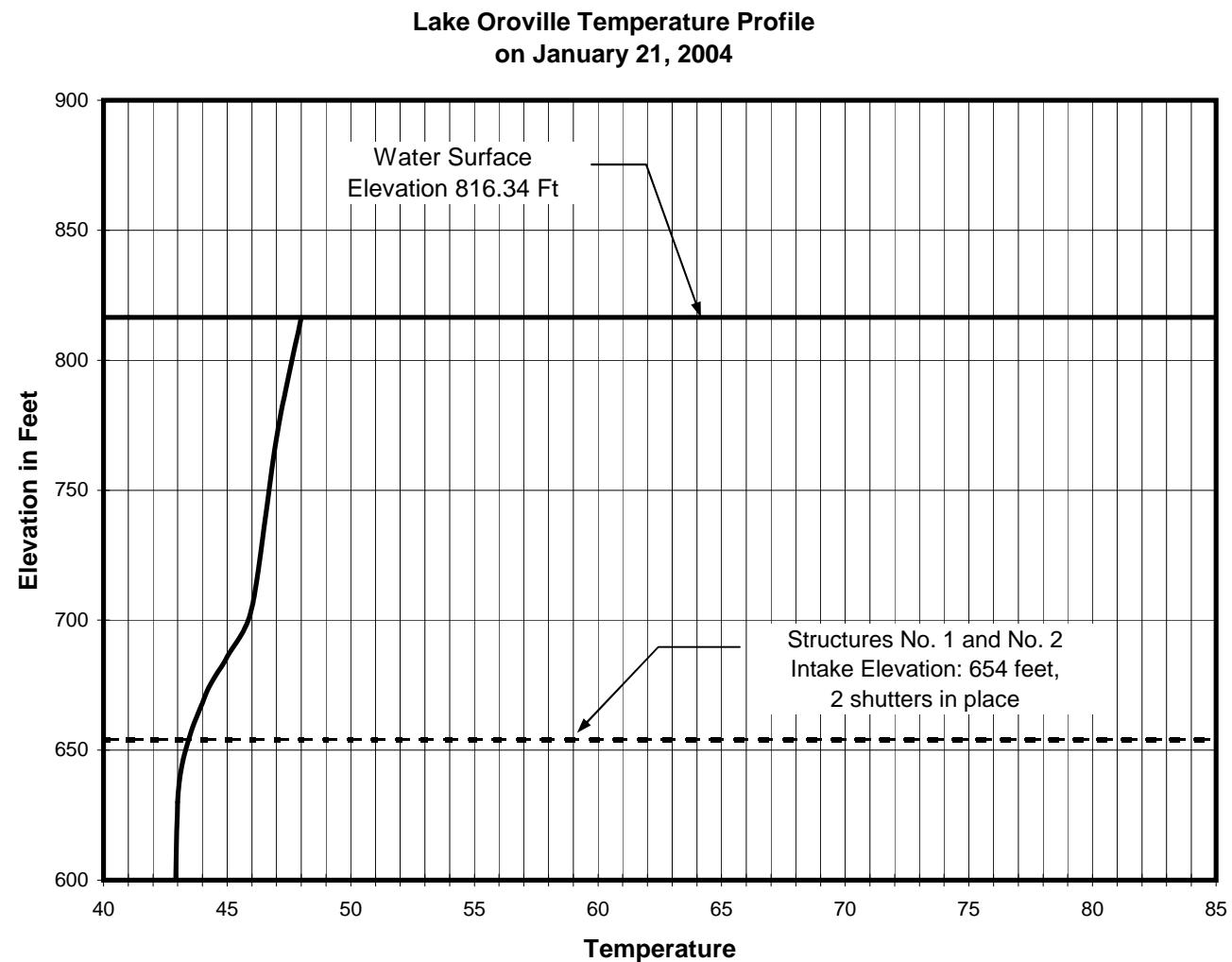
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

January 2004

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	45	47
2	45	46
3	45	47
4	44	47
5	44	47
6	44	47
7	44	47
8	45	47
9	45	46
10	46	47
11	46	47
12	46	46
13	47	46
14	47	45
15	46	45
16	47	45
17	47	45
18	47	45
19	47	45
20	47	45
21	47	45
22	47	45
23	47	45
24	47	45
25	47	45
26	46	45
27	46	45
28	46	45
29	46	44
30	46	45
31	46	45



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending					Table A Amount	Article 21 Water	Extended Carryover		
	No.	Structure	Mile							
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	2,142	121	315	5		
		Travis Surge Tank	8.78							
			8.80	Solano County Water Agency Travis Turnout	121					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	315					
				Solano County Water Agency Fairfield / Vacaville 42"	5					
			17.00	Solano County Water Agency Central Solano	Stub					
2	3A	Cordelia Forebay	21.23			377	328	17		
		Cordelia Pumping Plant & Cordelia Spillway	21.30		1,555					
3B	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	377	377	328	17		
				Solano County Water Agency Benicia	345					
		Cordelia Surge Tank	23.33			159	672	2		
		Creston Surge Tank Connection	25.65							
			26.95	Napa County Flood Control & WCD American Canyon 2	159					
			27.27	Napa County Flood Control & WCD American Canyon 3	0					
		Napa Terminal Tank	27.58	City of Napa	672					
			27.60	Napa County Flood Control & WCD American Canyon 1	2					

Table 9. Delta Field Division Plant Data

(in acre-feet)

January 2004

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	94	56	11,255	11,255	104	0	0	0
2	116	77	12,637	12,637	121	0	0	0
3	102	80	13,841	13,841	114	0	0	0
4	102	81	13,772	13,772	103	0	0	0
5	105	46	13,488	13,488	99	0	0	0
6	103	116	13,652	13,652	109	0	0	0
7	88	68	13,860	13,860	118	0	0	0
8	109	82	14,035	14,035	125	0	0	0
9	90	66	13,893	13,893	132	0	0	0
10	71	57	13,035	13,035	132	0	0	0
11	60	43	13,818	13,818	132	0	0	0
12	57	40	13,479	13,479	132	0	0	0
13	55	43	13,760	13,760	156	0	0	0
14	90	66	13,742	13,742	261	0	0	0
15	75	55	13,729	13,729	276	0	0	0
16	52	41	13,747	13,747	278	0	0	0
17	54	38	13,959	13,959	250	0	0	0
18	47	38	14,053	14,053	230	0	0	0
19	59	43	13,625	13,625	246	0	0	0
20	59	39	14,124	14,124	250	0	0	0
21	56	35	13,845	13,845	285	0	0	0
22	49	36	13,910	13,910	279	0	0	0
23	41	27	13,852	13,852	298	0	0	0
24	40	28	13,826	13,826	279	0	0	0
25	37	24	14,030	14,030	271	0	0	0
26	52	32	14,034	14,034	264	0	0	0
27	58	41	13,815	13,815	244	0	0	0
28	51	36	13,983	13,983	220	0	0	0
29	58	40	13,979	13,979	230	0	0	0
30	59	43	13,983	13,983	230	0	0	0
31	53	38	14,020	14,020	229	0	0	0
Total	2,142	1,555	424,781	424,781	6,197	0	0	0

Table 10. Clifton Court Forebay

Daily Operation of Gates

January 2004

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	1:15	6:15	14:30	21:15					8,602
2	0:15	10:15	15:15	21:45					12,270
3	0:45	13:00	15:45	22:30					13,561
4	1:30	13:45	16:15	22:00					14,268
5	2:00	14:30	17:00	22:15					13,488
6	2:45	15:15	17:30	23:15					14,255
7	3:15	15:00	18:15	---					14,356
8	---	0:45	3:45	16:30	18:45	---			14,445
9	---	1:30	4:30	17:00	19:30	---			14,476
10	---	1:55	5:00	17:45	20:00	---			12,819
11	---	2:05	5:45	18:45	20:45	---			13,602
12	---	2:10	6:15	19:30	21:30	---			12,940
13	---	2:10	6:15	19:30	21:30	---			12,251
14	---	4:00	7:30	22:00					12,472
15	0:01	9:15	12:45	19:00	22:00	---			13,578
16	---	10:15	13:30	20:00	23:00	---			13,296
17	---	11:30	14:30	21:15					13,959
18	0:15	12:30	13:13	21:05					14,225
19	1:00	13:30	16:15	21:25					14,206
20	2:00	14:30	17:00	23:15					14,210
21	2:45	15:30	18:00	21:50					14,232
22	0:01	0:30	3:30	16:15	18:45	23:20			14,233
23	0:01	1:15	4:15	17:15	19:45	23:00			14,218
24	0:01	2:00	5:00	18:00	20:30	23:15			14,214
25	0:01	2:45	5:45	19:00	21:15	---			13,879
26	---	3:15	6:25	20:00	22:15	---			13,108
27	---	4:00	7:30	21:00	23:15	---			13,320
28	---	8:45	12:00	18:15	21:15	---			13,510
29	---	9:30	12:45	19:30	22:30	---			13,205
30	---	10:30	13:30	20:30	23:30	---			14,090
31	---	11:30	14:15	21:30					13,913
Total inflow for the month in AF:									419,201

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Local	Loan Water	Dry Year Purchase		
	No.	Structure	Mile									
1	Banks Pumping Plant	3.32			424,781							
	South Bay Pumping Plant	4.49	Bethany Reservoir Inlet		6,197							
	Check No. 1	5.95										
	Check No. 2	12.01										
	3	12.47	Musco Olive		40		40					
		18.29										
	4	22.16	Tracy Golf & Country Club		0							
		23.99										
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7	35.22	Turlock Fruit Company Inflow		0							
		39.91										
2A	8	42.46	Oak Flat Water District-A		0							
		42.9	Western Hills WD		0							
		43.81	Oak Flat Water District-B		1	1						
		44.64	Oak Flat Water District-C		0							
		Check No. 8	45.97									
	9	46.18	Oak Flat Water District-D		4	4						
			Oak Flat Totals:		5	5	0	0	0	0		
	Check No. 9	51.3										
	10	Check No. 10	56.86									
	11	Check No. 11	61.4									
	12	66.14	Veteran's Cemetery		1		1					
		66.71			394,150							
2B												

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Table A Amount	Extended Carryover	Purchase Pool B	Local	Recre-ation		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	6,197	845	1	0	0	0		
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	1							
		Check No. 1	3.91									
	2	Check No. 2	5.21									
2	3		7.21	Zone 7 Altamont	0	724	3	0	0	0		
		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	0							
				Zone 7 Patterson Project Water	845							
4	4	Check No. 4	10.68			145	3	0	0	0		
		Check No. 5	12.29									
	6		13.55	Zone 7 Wente #1	0							
			14.16	Zone 7 Wente #2	0							
			14.31	Ising Project Water	3							
		Check No. 6	14.65									
	7		14.78	Zone 7 Arroyo Mocho Project Water	724							
		Check No. 7	16.38									
	8		16.57	Zone 7 Wente #3	0							
			16.69	Zone 7 Norman Nursery	0							
			16.70	Zone 7 Concannon Project Water	0							
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	0							
				(Flow into South Bay Aqueduct)	0							
				Arroyo Valle #1 & #2 Project Water	0							
				Arroyo Valle #1 & #2 Inflow Exchange	145							
		Deliveries through Del Valle Branch Pipeline		Lake Del Valle Recreation	3							
				Zone 7 Wente #5	0							
			19.20	So. Livermore Project	0							
6				So. Livermore Inflow Released	0							
				So. Livermore Stored Exchanged	0							
7			19.21	Zone 7 - Kalthrof Detjens	0							
	La Costa Tunnel		22.50	ACWD Vallecitos Project Water	0							
			25.97	City of San Francisco San Antonio	0							
8	Mission Tunnel	28.97		ACWD - Bayside 1 & 2 Project Water: Inflow Released	1,388	1,388	3,081	0	0	0		
				Inflow Exchange:	0							
9	Santa Clara Pipeline	35.86		S.C.V.W.D. Meter	3,081							

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

January 2004

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Dec 31	681.48	26,553									
1	683.67	27,731	1,178	1,178	0	0	0	0	0	0	1.49
2	685.01	28,474	743	744	0	0	0	0	1	1	0.14
3	685.42	28,705	231	234	0	0	0	0	3	3	0.28
4	685.64	28,829	124	125	0	0	0	0	1	1	0.00
5	685.78	28,909	80	81	0	0	0	0	1	1	0.00
6	685.87	28,960	51	52	0	0	0	0	1	1	0.00
7	685.95	29,005	45	46	0	0	0	0	1	1	0.02
8	686.02	29,045	40	41	0	0	0	0	1	1	0.02
9	686.09	29,085	40	41	0	0	0	0	1	1	0.00
10	686.14	29,113	28	30	0	0	0	0	2	2	0.00
11	686.18	29,136	23	24	0	0	0	0	1	1	0.00
12	686.22	29,159	23	24	0	0	0	0	1	1	0.00
13	686.25	29,176	17	18	0	0	0	0	1	1	0.00
14	686.28	29,193	17	18	0	0	0	0	1	1	0.00
15	686.32	29,216	23	23	0	0	0	0	0	0	0.00
16	686.36	29,239	23	24	0	0	0	0	1	1	0.00
17	686.36	29,239	0	1	0	0	0	0	1	1	0.00
18	686.40	29,262	23	24	0	0	0	0	1	1	0.00
19	686.40	29,262	0	1	0	0	0	0	1	1	0.01
20	686.45	29,291	29	29	0	0	0	0	0	0	0.00
21	686.47	29,302	11	11	0	0	0	0	0	0	0.00
22	686.47	29,302	0	2	0	0	0	0	2	2	0.00
23	686.50	29,320	18	22	0	0	0	0	4	4	0.00
24	686.55	29,348	28	29	0	0	0	0	1	1	0.33
25	686.57	29,360	12	12	0	0	0	0	0	0	0.00
26	686.58	29,365	5	6	0	0	0	0	1	1	0.00
27	686.61	29,383	18	19	0	0	0	0	1	1	0.00
28	686.63	29,394	11	13	0	0	0	0	2	2	0.10
29	686.65	29,406	12	14	0	0	0	1	1	2	0.01
30	686.68	29,423	17	21	0	0	0	1	3	4	0.04
31	686.69	29,429	6	10	0	0	0	1	3	4	0.00
Total				2,876	2,917	0	0	3	38	41	2.44

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

January 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Dec 31	220.20	43,671											
1	219.70	42,376	-1,295	0	3,860	0	5,054	0	6,455	3,542	0	430	
2	221.40	46,810	4,434	0	3,924	0	5,701	0	4,865	2,788	0	263	
3	222.30	49,182	2,372	0	3,828	0	6,716	0	6,412	3,259	0	323	
4	220.40	44,192	-4,990	0	3,851	0	6,392	0	8,921	4,173	2	337	
5	221.67	47,519	3,327	0	3,820	0	6,148	0	4,559	3,918	2	188	
6	221.95	48,255	736	0	3,899	0	6,522	0	7,370	3,202	2	524	
7	221.81	47,887	-368	0	3,925	0	6,618	0	7,969	3,206	2	448	
8	221.22	46,337	-1,550	0	3,960	0	6,867	0	8,232	3,776	0	400	
9	222.04	48,491	2,154	0	3,966	0	6,662	0	5,840	4,043	0	341	
10	220.69	44,949	-3,542	0	3,977	0	6,009	0	7,883	4,163	0	274	
11	219.50	41,862	-3,087	0	3,979	0	6,665	0	7,878	4,587	0	265	
12	220.60	44,714	2,852	0	3,910	0	6,251	0	5,629	3,110	2	18	
13	220.80	45,237	523	0	3,879	0	6,494	0	7,044	3,624	2	561	
14	222.09	48,624	3,387	0	3,818	0	6,264	0	4,765	3,996	2	389	
15	222.61	50,006	1,382	0	3,277	0	6,342	0	5,284	4,158	4	524	
16	221.78	47,809	-2,197	0	2,966	0	6,305	0	6,596	4,201	4	422	
17	220.53	44,531	-3,278	0	2,976	0	6,505	0	6,535	5,019	4	424	
18	218.81	40,103	-4,428	0	3,054	0	6,705	0	6,977	5,444	4	434	
19	220.41	44,218	4,115	0	3,320	0	6,344	0	3,603	4,407	4	425	
20	220.74	45,080	862	0	3,498	0	6,385	0	5,466	4,538	4	560	
21	220.93	45,577	497	0	3,357	0	6,297	0	5,546	4,386	6	535	
22	219.93	42,971	-2,606	0	3,353	0	6,420	0	7,277	4,297	0	487	
23	221.07	45,944	2,973	0	3,235	0	6,580	0	4,365	4,572	0	621	
24	221.47	46,994	1,050	0	3,274	0	6,205	0	4,242	5,094	0	386	
25	220.83	45,315	-1,679	0	3,283	0	6,688	0	6,498	4,907	0	588	
26	221.70	47,598	2,283	0	3,308	0	6,548	0	4,866	4,181	0	342	
27	221.57	47,257	-341	0	3,313	0	6,490	0	6,120	4,377	0	522	
28	221.20	46,285	-972	0	3,293	0	6,781	0	6,183	4,722	4	345	
29	220.20	43,671	-2,614	0	3,370	0	6,641	0	6,499	5,179	8	357	
30	220.30	43,931	260	0	3,389	0	6,541	0	5,076	5,159	8	444	
31	220.10	43,411	-520	0	3,234	0	6,573	0	4,941	5,473	8	353	
Total				-260	0	110,096	0	198,713	0	189,896	131,501	72	12,530
Mean cfs				---	0	3,551	0	6,410	0	6,126	4,242	2	404
Acre-feet				-260	0	218,374	0	394,150	0	376,653	260,834	142	24,845

1/ Pump-in located at Mile 79.67R.

2/ Includes 60 AF delivered to DFG at O'Neill Forebay, 1 AF to Cattle, and 81 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

January 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 2,027,835 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Dec 31	482.96	1,316,540							
1	484.09	1,328,944	12,404	6,455	0	137	0	-64	
2	484.91	1,337,970	9,026	4,865	0	153	0	-161	
3	485.99	1,349,888	11,918	6,412	0	181	0	-222	
4	487.50	1,366,611	16,723	8,921	0	181	0	-309	
5	488.23	1,374,720	8,109	4,559	0	184	0	-287	
6	489.44	1,388,197	13,477	7,370	0	182	0	-393	
7	490.74	1,402,726	14,529	7,969	0	185	0	-459	
8	492.08	1,417,755	15,029	8,232	0	186	0	-469	
9	493.03	1,428,442	10,687	5,840	0	198	0	-254	
10	494.33	1,443,111	14,669	7,883	0	205	0	-282	
11	495.63	1,457,831	14,720	7,878	0	206	0	-251	
12	496.53	1,468,051	10,220	5,629	0	196	0	-280	
13	497.72	1,481,601	13,550	7,044	0	193	0	-20	
14	498.47	1,490,163	8,562	4,765	0	171	0	-277	
15	499.30	1,499,658	9,495	5,284	0	158	0	-339	
16	500.38	1,512,043	12,385	6,596	0	150	0	-202	
17	501.47	1,524,577	12,534	6,535	0	149	0	-67	
18	502.58	1,537,378	12,801	6,977	0	150	0	-373	
19	503.14	1,543,850	6,472	3,603	0	149	0	-191	
20	503.98	1,553,575	9,725	5,466	0	151	0	-412	
21	504.87	1,563,902	10,327	5,546	0	151	0	-189	
22	506.01	1,577,164	13,262	7,277	0	156	0	-435	
23	506.68	1,584,976	7,812	4,365	0	160	0	-267	
24	507.37	1,593,035	8,059	4,242	0	158	0	-21	
25	508.35	1,604,505	11,470	6,498	0	168	0	-547	
26	509.08	1,613,068	8,563	4,866	0	205	0	-344	
27	510.02	1,624,116	11,048	6,120	0	223	0	-327	
28	510.96	1,635,191	11,075	6,183	0	231	0	-368	
29	511.96	1,647,000	11,809	6,499	0	234	0	-311	
30	512.70	1,655,758	8,758	5,076	0	231	0	-430	
31	513.43	1,664,413	8,655	4,941	0	200	1	-377	
Total			347,873	189,896	0	5,582	1	-8,928	
Mean cfs			---	6,126	0	180	0	-288	
Acre-feet			347,873	376,653	0	11,071	1	-17,708	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 9,868 AF, San Benito: 1,203 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

January 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	7,026	5,979	0	0	12,804	1,935	272
2	5,530	4,558	0	0	9,649	5,272	303
3	6,464	5,473	0	0	12,718	7,596	359
4	8,277	7,220	0	0	17,695	6,845	359
5	7,771	6,799	0	0	9,042	4,681	365
6	6,352	5,382	0	0	14,618	9,145	361
7	6,359	5,383	0	0	15,806	8,321	366
8	7,490	6,491	0	0	16,328	8,861	369
9	8,019	8,019	0	0	11,584	4,165	392
10	8,257	8,257	0	0	15,635	8,608	407
11	9,098	9,098	0	0	15,626	2,013	409
12	6,168	6,168	0	0	11,166	3,944	388
13	7,189	7,189	0	0	13,972	6,700	383
14	7,926	6,492	0	0	9,452	4,336	340
15	8,247	6,738	0	0	10,480	5,366	314
16	8,332	6,867	0	0	13,084	8,037	297
17	9,955	7,944	0	0	12,963	8,338	296
18	10,798	8,863	0	0	13,838	4,106	297
19	8,742	6,734	0	0	7,147	3,487	296
20	9,001	6,986	0	0	10,841	7,126	299
21	8,699	6,668	0	0	11,001	7,305	300
22	8,524	5,018	0	0	14,433	10,770	309
23	9,069	5,644	0	0	8,657	4,985	318
24	10,104	6,553	0	0	8,414	5,069	314
25	9,734	6,110	0	0	12,889	6,478	333
26	8,294	4,706	0	0	9,651	7,323	406
27	8,682	5,078	0	0	12,139	9,759	442
28	9,366	5,778	0	0	12,263	9,642	458
29	10,273	6,756	0	0	12,890	9,380	464
30	10,232	6,764	0	0	10,068	6,568	459
31	10,856	7,299	0	0	9,800	6,571	396
Total	260,834	203,014	0	0	376,653	202,732	11,071

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

January 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Dec 31	324.03	18,847					
1	324.05	18,856	9	5	0	0	-1
2	324.44	19,031	175	88	0	0	0
3	324.51	19,062	31	16	0	0	-1
4	324.55	19,080	18	9	0	0	0
5	324.57	19,089	9	5	0	0	-1
6	324.59	19,098	9	5	0	0	-1
7	324.61	19,107	9	5	0	0	-1
8	324.61	19,107	0	0	0	0	0
9	324.62	19,112	5	3	0	0	-1
10	324.62	19,112	0	0	0	0	0
11	324.62	19,112	0	0	0	0	0
12	324.61	19,107	-5	0	0	0	-5
13	324.61	19,107	0	0	0	0	0
14	324.62	19,112	5	3	0	0	-1
15	324.62	19,112	0	0	0	0	0
16	324.62	19,112	0	0	0	0	0
17	324.62	19,112	0	0	0	0	0
18	324.63	19,116	4	2	0	0	0
19	324.63	19,116	0	0	0	0	0
20	324.63	19,116	0	0	0	0	0
21	324.63	19,116	0	0	0	0	0
22	324.63	19,116	0	0	0	0	0
23	324.64	19,121	5	3	0	0	-1
24	324.67	19,134	13	7	0	0	-1
25	324.67	19,134	0	0	0	0	0
26	324.66	19,130	-4	0	0	0	-4
27	324.67	19,134	4	2	0	0	0
28	324.68	19,139	5	3	0	0	-1
29	324.68	19,139	0	0	0	0	0
30	324.68	19,139	0	0	0	0	0
31	324.68	19,139	0	0	0	0	0
Total			292	156	0	0	-19
Mean cfs			---	5	0	0	---
Acre-feet			292	309	0	0	-19

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

January 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Dec 31	600.65	717					
1	600.80	725	8	4	0	0	
2	Not Observed			0	0	0	
3	600.80	725	0	0	0	0	
4	600.85	728	3	2	0	0	
5	Not Observed			0	0	0	
6	600.90	731	3	2	0	0	
7	600.95	733	2	1	0	0	
8	601.00	736	3	2	0	0	
9	601.00	736	0	0	0	0	
10	601.00	736	0	0	0	0	
11	601.00	736	0	0	0	0	
12	601.05	739	3	2	0	0	
13	Not Observed			0	0	0	
14	Not Observed			0	0	0	
15	601.10	741	2	1	0	0	
16	601.15	744	3	2	0	0	
17	601.15	744	0	0	0	0	
18	601.20	747	3	2	0	0	
19	601.20	747	0	0	0	0	
20	601.20	747	0	0	0	0	
21	Not Observed			0	0	0	
22	Not Observed			0	0	0	
23	601.30	752	5	3	0	0	
24	Not Observed			0	0	0	
25	601.40	758	6	3	0	0	
26	601.40	758	0	0	0	0	
27	601.40	758	0	0	0	0	
28	601.50	763	5	3	0	0	
29	601.50	763	0	0	0	0	
30	601.53	765	2	1	0	0	
31	601.55	766	1	1	0	0	
Total			49	29	0	0	---
Mean cfs			---	1	0	0	---
Acre-feet			49	58	0	0	-9

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
		Beginning and Ending				USBR	Transfer 1/	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		394,150						
3A		San Luis Reservoir		Department of Parks and Recreation	1	9,868	1,203	1			
				San Felipe Division Santa Clara Water District	9,868						
				San Felipe Division San Benito Water District	1,203						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation		81	0	33	27		
				Cattle Program	1						
				Department of Fish & Game	60						
			70.91	San Luis Water District	81	81	0	34	27		
			Thru 85.08	(Floodwater Inflow)	0						
		Dos Amigos Pumping Plant	86.73	Reach 3 Subtotal:	142						
					260,834						
4	14		89.03			1,921	330	30	70		
			Thru 94.06	San Luis Water District	1,921						
			89.66								
			Thru 89.67	Pacheco Water District	330						
			89.68	Panoche Water District	30						
			89.70	City of Dos Palos	70	462	4,219	2	7,011		
			Check No. 14	95.06							
			98.15			4,219	2	7,011			
			Thru 104.20	San Luis Water District	462						
			96.15								
			Thru 102.64	Panoche Water District	4,219						
			(Floodwater Inflow)	0							
	15		102.64	Broadview Water District	2	4,219	2	7,011			
			105.22								
			Thru 108.64	Westlands Water District	7,011						
			Check No.15	108.50							
			San Felipe Division Total:	11,071	11,071						
			Pacheco Water District Total:	330	330	2,464	0	0	0		
			Broadview Water District Total:	2	2						
			City of Dos Palos Total:	70	70						
			SLWD Reach 4 Subtotal:	2,464	2,464						
			Panoche Water District Total:	4,249	4,249	0	0	0	0		
			SLWD Total:	2,464	2,464						
			Westlands WD Reach 4 Subtotal:	7,011	7,011						

1/ Water transferred from Contra Costa WD.

Table 19b. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
5	16		110.52	(Reverse flow, Kings River)	0	10,212		1			
			Thru	Westlands Water District	10,212						
			122.05	Department of Fish and Game	1						
			Check No. 16	122.07							
	17		124.18	Westlands Water District	7,886	7,886					
			Thru								
		Check No. 17	132.74								
	18		132.95	Westlands Water District	5,919	5,919					
			133.81								
			Thru								
			142.61	Westlands Water District	3,421	3,421					
			Pleasant Valley Pumping Plant								
			143.16								
6	19		143.16	City of Coalinga	325	325					
			Check No. 18								
			143.23								
				Westlands WD Reach 5 Subtotal:	27,438	27,438	0	0	0		
			145.26	Westlands Water District	15,127	15,127					
7	20		Thru								
			151.19								
			Check No. 19	155.64							
				Westlands WD Reach 6 Subtotal:	15,127	15,127	0	0	0		
			156.34	City of Huron	48	48					
			156.40	Westlands Water District	8,868	8,868					
			Thru								
7	21		163.69								
			Check No. 20	164.69							
			164.79	City of Avenal	182	182					
			167.04	Westlands Water District	2,282	2,282					
			Thru								
			171.67								
			Check No. 21	172.40	196,553						
				Reach 7 Total:	11,380	11,380	0	0	0		
				Westlands WD Total:	60,726	60,726	0	0	0		
				City of Coalinga Total:	325	325	0	0	0		
				City of Huron Total:	48	48	0	0	0		
				City of Avenal Total:	182	182	0	0	0		
Total San Luis Field Division Deliveries:					79,529	79,467	0	35	27		

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
January 2004

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	Pools 14 & 15 2/	Pool 15	Pools 15 thru 21 3/	Flow Past Check 21	
Dec 31	28,331								
1	28,536	205	0	3,542	11	15	421	3,309	317
2	27,870	-666	0	2,788	11	15	421	2,946	269
3	27,098	-772	0	3,259	11	15	421	3,425	224
4	27,324	226	0	4,173	11	15	421	3,790	178
5	28,127	803	0	3,918	11	15	421	3,086	20
6	28,335	208	0	3,202	11	15	421	2,534	-116
7	27,782	-553	0	3,206	13	16	426	2,748	-282
8	27,227	-555	0	3,776	23	56	913	3,183	119
9	27,295	68	0	4,043	23	56	913	3,194	177
10	27,346	51	0	4,163	23	56	913	3,211	66
11	26,922	-424	0	4,587	23	56	913	4,012	203
12	26,955	33	0	3,110	23	56	913	2,094	-7
13	26,796	-159	0	3,624	23	56	913	2,561	-151
14	27,016	220	0	3,996	28	56	915	2,711	-175
15	27,285	269	0	4,158	46	93	1,288	2,742	147
16	27,337	52	0	4,201	46	93	1,288	2,857	109
17	27,542	205	0	5,019	46	93	1,288	3,557	68
18	27,322	-220	0	5,444	46	93	1,288	4,273	145
19	27,696	374	0	4,407	46	93	1,288	2,802	11
20	27,217	-479	0	4,538	46	93	1,288	3,342	-10
21	27,456	239	0	4,386	48	95	1,293	2,680	-150
22	27,903	447	0	4,297	74	106	1,236	2,619	-37
23	27,719	-184	0	4,572	74	106	1,236	3,231	-18
24	28,187	468	0	5,094	74	106	1,236	3,451	9
25	27,367	-820	0	4,907	74	106	1,236	3,981	77
26	28,084	717	0	4,181	74	106	1,236	2,399	-5
27	27,917	-167	0	4,377	74	106	1,236	3,120	75
28	27,574	-343	0	4,722	75	106	1,239	3,646	171
29	27,890	316	0	5,179	105	83	1,292	3,755	216
30	28,169	279	0	5,159	105	83	1,292	3,805	268
31	28,573	404	0	5,473	105	83	1,292	4,027	238
Total		242	0	131,501	1,403	2,142	30,897	99,091	2,156
Mean cfs		---	0	4,242	45	69	997	3,196	70
Acre-feet		242	0	260,834	2,783	4,249	61,284	196,553	4,277

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 329 AF AG & 1 AF M&I to Pacheco W.D. and 70 AF to the City of Dos Palos.

3/ Includes 48 AF to the City of Huron, 182 AF to the City of Avenal, 325 AF to the City of Coalinga, 60,726 AF to WWD, 2 AF to Broadview W.D., and 1 AF to F&G @ WWD Lateral 4L.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

January 2004

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrismen Pumping Plant	Edmonston Pumping Plant
1	122	122	58	54	60	5,914	6,278	6,088	6,121
2	110	110	54	51	57	5,140	5,297	5,187	5,094
3	54	54	34	31	36	6,039	6,050	5,888	5,974
4	75	75	42	40	45	6,562	6,782	6,756	6,769
5	74	74	28	28	32	5,336	5,359	5,284	5,052
6	82	82	44	39	44	4,526	4,778	4,773	4,751
7	105	105	39	35	41	5,149	5,459	5,416	5,376
8	84	84	40	37	42	5,154	5,369	5,325	5,218
9	69	69	41	38	42	5,911	5,915	5,852	5,781
10	77	77	44	40	46	5,726	6,042	5,977	5,970
11	92	92	38	34	38	6,827	7,025	6,849	6,810
12	65	65	25	24	27	4,279	4,127	4,014	3,901
13	77	77	40	38	42	3,922	4,166	4,114	4,063
14	73	73	36	34	39	3,949	4,079	3,979	3,898
15	71	71	44	38	45	4,351	4,479	4,149	4,149
16	112	112	58	53	59	4,452	4,377	4,257	4,213
17	122	122	52	48	55	6,170	5,898	5,730	5,717
18	101	101	39	36	41	7,011	6,918	6,897	6,825
19	112	112	47	43	49	4,490	4,595	4,439	4,339
20	112	112	39	36	39	5,539	5,496	5,380	5,353
21	109	109	38	36	40	3,716	4,045	3,930	3,808
22	116	116	50	45	53	4,364	4,458	4,376	4,868
23	123	123	46	42	47	5,219	5,265	5,145	5,033
24	146	146	66	61	68	5,637	5,802	5,654	5,662
25	89	89	28	25	29	6,226	6,455	6,278	6,232
26	109	109	38	36	41	4,186	4,333	4,254	4,144
27	126	126	39	36	41	5,081	5,341	5,265	5,196
28	178	178	58	55	60	5,655	5,736	5,671	5,573
29	149	149	40	38	42	6,088	6,192	6,147	6,089
30	136	136	40	38	42	6,142	6,425	6,302	6,180
31	203	203	46	42	49	6,804	6,858	6,784	6,755
Total	3,273	3,273	1,331	1,231	1,391	165,565	169,399	166,160	164,914

Table 22a. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Article 12E Table A Carryover	Wet Weather Table A Carryover	Extended Table A Carryover		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		196,553							
8C	22				Empire West Side Irrig. Dist. TL - A	985			985			
					County of Kings TL - A	0						
					TLBWSD TL-A	336		336				
					175.18 DRWD - 1	60			60			
					177.54 DRWD - 1B	128			128			
					180.64 TLBWSD - C	0			6			
					180.65 DRWD - 1A	6			408			
					182.99 DRWD - 2	408						
					183.00 Tulare Lake Basin WSD TL - B	3,402		3,402				
					184.00 DRWD - Paramount	1			1			
31A					184.63 Coastal Branch	3,273						
8D					184.78 Dudley Ridge Water Dist. DRWD - 3	104			104			
					Dudley Ridge Reach 8D Total:	707	0	0	0	707		
					Tulare Lake Basin WSD Total:	3,738	0	3,738	0	0		
					Check No. 22	184.82						
9	23				189.69 Kern County Water Agency Lost Hills Water Dist. - 1	813				813		
					191.18 Kern County Water Agency Lost Hills Water Dist. - 2	24				24		
					194.22 Kern County Water Agency Lost Hills Water Dist. - 3	5				5		
					196.40 Kern County Water Agency Berrenda Mesa - 2	0						
					196.75 Kern County Water Agency Lost Hills Water Dist. - 4	0						
					K.C.W.A. Reach 9 Subtotal:	842	0	0	0	842		
					Check No. 23	197.05						
					201.24 Kern County Water Agency Lost Hills Water Dist. - 7	78				78		
					202.05 Kern County Water Agency Lost Hills Water Dist. - 5	88				88		
					204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0						
10A	24				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	0						
					Check No. 24	207.94						
					209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	0						
					209.78 Kern National Wildlife Refuge USBR BV-1B	1,355	1,355					
						260				260		
					209.80 KCWA Semitropic WSD	3,278				1/ 3,278		
					KCWA Semitropic WSD Penstocks	3,265				2/ 3,265		
					USBR Total:	1,355	0	1,355	0	0		
					K.C.W.A. Reach 10A Subtotal:	6,969	0	0	0	6,969		

1/ Includes 2,475 AF of Zone-7 carryover water and 803 AF of Castaic Lake WA carryover water to storage in Semitropic WSD.

2/ Carryover water from Zone-7 to storage in Semitropic WSD.

Table 22b. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Article 12E Table A Carryover	Wet Weather Table A Carryover	Extended Table A Carryover		
	No.	Structure	Mile									
11B	25	210.75	Kern County Water Agency Belridge - 2	0						59		
			Kern County Water Agency Belridge - 3	59						964		
			Kern County Water Agency Belridge - 4	0						98		
			Kern County Water Agency Belridge - 5	964								
			Kern County Water Agency Belridge - 5D	98								
		Check No. 25	217.79		1,121	0	0	0	0	1,121		
			K.C.W.A. Reach 11B Subtotal:									
12D	26	219.58	Kern County Water Agency Belridge - 6	0						294		
			Kern County Water Agency West Kern - 3	294								
		Check No. 26	224.92									
			K.C.W.A. Reach 12D Subtotal:									
12E	27	230.37	Kern County Water Agency Buena Vista - 6	0								
		Check No. 27	231.73									
	28	235.75	Kern County Water Agency Buena Vista - 2	0						5,806		
			Kern County WA CVC	5,806								
		238.04	DRWD CVC	0								
			Tulare Co.	0								
			Lower Tule River	0								
			Fresno Co.	0								
			Pixley ID	0								
			Hacienda									
			DWR Wells	0								
		Check No. 28	238.11									
			1/ Arvin Edison Total:	0		0	0	0	0	0		
			Reach 12E Subtotal:	5,806		0	0	0	0	5,806		
13B	29	238.19	Kern Water Bank Inflow	0						1,922		
			Kern Water Bank Outflow	1,922								
		241.02	Kern River Intertie (inflow)	0								
		242.85	KCWA Buena Vista WSD - 7	0								
		243.09	KCWA Buena Vista WSD - 5	0								
			Kern County Water Agency Buena Vista - 3	989								
		Check No. 29	244.54	Buena Vista WSD	0							
		249.85	Kern County Water Agency Buena Vista - 4	638								
			Buena Vista Pumping Plant	250.99		165,565						
			K.C.W.A. Reach 13B Subtotal:	3,549		0	0	0	0	3,549		
14A	31	254.47	Kern County Water Agency West Kern - 2	0								
			Kern County Water Agency Wheeler Ridge-Maricopa - 2	0								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries									
	Beginning and Ending					Table A Amount	USBR	Article 12E Table A Carryover	Wet Weather Table A Carryover	Extended Table A Carryover					
	No.	Structure	Mile												
14A	31	Check No. 31	256.14		0	0	0	0	0	23					
	32		258.61		Kern County Water Agency Wheeler Ridge-Maricopa - 3										
			260.44		Kern County Water Agency Wheeler Ridge-Maricopa - 4		23								
		Check No. 32	261.72												
		KCWA Reach 14A Subtotal:			23										
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	71	0	0	0	0	71					
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	10										
	34	Check No. 33	267.36												
			270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	24										
		Check No. 34	271.27												
		Reach 14B Total:			105										
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	243	0	0	0	0	243					
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	201										
			Reach 14C Total:												
15A	36	Teerink Pumping Plant	278.13				169,399	0	0	0					
			279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	6										
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	235										
			Reach 15-A Total:			241									
	Chrismans Pumping Plant	280.36				166,160									
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0	0	0	0	0	6					
			283.95												
			285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	10										
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	61										
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0										
	38	Check No. 38	287.09												
			287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	51										
	39	Check No. 39	290.21												
			291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	13										
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	0										
17E	40		Kern County Water Agency Tehachapi Cummings CWD			0	0	0	0	13					
			K.C.W.A. Reach 16A Subtotal:												
	Edmonston Pumping Plant	293.45				164,914									

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recovery of Pump In	MWD Ent.	Exchange	Extended Table A Carryover		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		3,273	1,570	367					
		Las Perillas Pumping Plant	1.16		3,273							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		3,273							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	1,570							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	0							
			14.83	Kern County Water Agency Berrenda Mesa - 1	367							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		1,331							
				K.C.W.A. Reach 31A Subtotal:	367	0	0	0	0	367		
				K.C.W.A. Total:	19,896	0	0	0	0	19,896		
33A	C-7	Bluestone Pumping Plant	19.05		1,231	1,185	175					
	C-8	Polonio Pass Pumping Plant	26.54		1,391							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,185							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	175							
		Energy Dissipater	78.12									
		Lopez T.O.	85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	1,360	1,360	0	0	0	0		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0	0	0	0	0	0		
		Tank Site 5	115.42									

Table 24. Southern Field Division Plant Data

(in acre-feet)

January 2004

Date	West Branch					East Branch											
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Cherry Valley	Green Spot	Crafton Hills	
		Generation	Leakage	Generation 1/	Pumpback 1/	Bypass Through Plant	Cottonwood Chute	Generation		Leakage	Bypass Flume						
28	1	2,719	2,768	0	3,649	3,926	3,447	0	0	3,242	2,910	0	0	2,197	0	0	0
	2	2,660	2,703	0	5,611	1,458	2,447	0	0	2,683	2,689	0	0	2,641	0	7	0
	3	2,771	2,991	0	3,691	722	3,142	0	22	3,142	2,612	0	0	2,201	0	0	0
	4	3,908	3,017	0	1,547	1,797	2,857	0	31	2,767	2,645	0	0	2,397	0	8	0
	5	2,536	2,757	0	4,004	558	2,482	0	74	2,394	2,628	0	0	2,493	5	28	23
	6	2,414	2,752	0	3,543	0	2,373	0	0	2,348	2,124	0	0	2,763	0	0	0
	7	3,111	2,740	0	5,721	1,232	2,258	0	0	2,367	2,400	0	0	2,753	2	8	0
	8	2,123	2,398	0	2,832	1,398	2,866	0	255	3,000	2,538	0	0	2,858	3	11	7
	9	3,123	2,909	0	5,649	1,373	2,666	0	0	2,397	2,378	0	0	2,818	0	0	0
	10	3,093	3,190	0	555	0	2,690	0	177	2,737	2,799	0	0	2,811	0	8	0
	11	3,817	2,835	0	1,788	1,714	3,061	0	0	3,168	3,038	0	0	2,985	0	0	0
	12	1,649	1,887	0	3,641	1,642	2,122	0	157	2,115	2,145	0	0	2,170	0	8	0
	13	1,652	2,160	0	3,474	1,504	2,302	0	92	2,276	2,107	0	0	2,103	0	4	0
	14	1,600	1,816	0	3,308	22	2,228	0	61	2,169	1,936	0	0	2,205	4	0	0
	15	1,856	1,815	0	3,990	1,871	2,201	0	71	2,220	1,935	0	0	2,319	3	18	11
	16	1,909	1,758	0	3,845	730	2,172	0	89	2,066	2,322	0	0	2,872	0	0	0
	17	1,862	2,142	0	369	0	3,538	0	231	3,550	3,213	0	0	3,061	0	6	0
	18	3,198	1,851	0	395	875	3,460	0	168	3,415	3,172	0	0	3,009	0	7	0
	19	1,690	1,972	0	2,402	895	2,663	0	37	3,067	3,172	0	0	2,887	0	2	0
	20	1,852	1,658	0	4,329	1,582	3,086	0	417	3,095	2,994	0	0	2,735	0	36	23
	21	766	459	0	3,779	1,404	2,928	0	165	3,117	3,026	0	0	3,191	3	35	23
	22	582	768	0	3,712	1,151	3,440	0	271	3,435	3,246	0	0	3,072	4	35	23
	23	2,324	2,758	0	4,497	0	2,635	0	90	2,730	2,724	0	0	2,828	0	36	23
	24	2,719	2,538	0	625	1,347	2,957	0	0	2,810	2,674	0	0	2,601	0	11	0
	25	2,990	2,651	0	491	1,718	3,253	0	0	2,833	2,724	0	0	2,706	0	12	0
	26	1,973	2,836	0	4,832	901	2,282	0	0	2,128	2,017	0	0	3,002	4	37	24
	27	2,399	2,689	0	4,166	0	2,667	0	81	2,798	2,710	0	0	2,836	0	35	23
	28	2,508	2,792	0	4,129	1,215	2,821	0	241	3,066	2,767	0	0	3,044	5	11	0
	29	2,717	2,630	0	4,104	0	3,069	0	267	2,848	2,497	0	0	2,903	6	34	25
	30	3,342	2,703	0	4,570	775	2,694	0	154	2,833	2,803	0	0	2,997	0	33	27
	31	3,133	2,686	0	405	0	3,316	0	226	3,668	3,715	0	0	3,012	0	5	0
Total		74,996	73,629	0	99,653	31,810	86,123	0	3,377	86,484	82,660	0	0	84,470	39	435	232

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	
				Project		Natural	Project		Natural	United Water Agency		
				Castaic Powerplant Pumpback 1/	Warne Powerplant	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	To Piru Creek			
Dec 31	2570.89	160,884										
1	2573.17	163,740	2,856	3,926	2,768	20	3,649	0	25	0	-184	
2	2572.04	162,321	-1,419	1,458	2,703	20	5,611	0	25	0	36	
3	2572.00	162,271	-50	722	2,991	20	3,691	0	26	0	-66	
4	2574.58	165,523	3,252	1,797	3,017	20	1,547	0	25	0	-10	
5	2573.98	164,763	-760	558	2,757	19	4,004	0	25	0	-65	
6	2573.31	163,917	-846	0	2,752	19	3,543	0	25	0	-49	
7	2571.88	162,120	-1,797	1,232	2,740	19	5,721	0	25	0	-42	
8	2572.60	163,023	903	1,398	2,398	20	2,832	0	23	0	-58	
9	2571.47	161,608	-1,415	1,373	2,909	20	5,649	0	21	0	-47	
10	2573.52	164,182	2,574	0	3,190	19	555	0	21	0	-59	
11	2575.63	166,859	2,677	1,714	2,835	19	1,788	0	20	0	-83	
12	2575.55	166,757	-102	1,642	1,887	19	3,641	0	20	0	11	
13	2575.64	166,872	115	1,504	2,160	19	3,474	0	20	0	-74	
14	2574.49	165,409	-1,463	22	1,816	19	3,308	0	20	0	8	
15	2574.21	165,054	-355	1,871	1,815	19	3,990	0	20	0	-50	
16	2573.13	163,690	-1,364	730	1,758	19	3,845	0	20	0	-6	
17	2574.47	165,384	1,694	0	2,142	18	369	0	20	0	-77	
18	2576.25	167,652	2,268	875	1,851	19	395	0	20	0	-62	
19	2576.56	168,049	397	895	1,972	19	2,402	0	20	0	-67	
20	2575.68	166,923	-1,126	1,582	1,658	19	4,329	0	20	0	-36	
21	2574.18	165,016	-1,907	1,404	459	19	3,779	0	20	0	10	
22	2572.76	163,224	-1,792	1,151	768	18	3,712	0	20	0	3	
23	2571.35	161,458	-1,766	0	2,758	18	4,497	0	20	0	-25	
24	2573.91	164,675	3,217	1,347	2,538	19	625	0	20	0	-42	
25	2576.86	168,434	3,759	1,718	2,651	19	491	0	20	0	-118	
26	2575.94	167,255	-1,179	901	2,836	18	4,832	0	20	0	-82	
27	2574.77	165,765	-1,490	0	2,689	18	4,166	0	20	0	-11	
28	2574.69	165,663	-102	1,215	2,792	18	4,129	0	20	0	22	
29	2573.50	164,157	-1,506	0	2,630	19	4,104	0	20	0	-31	
30	2572.60	163,023	-1,134	775	2,703	19	4,570	0	20	0	-41	
31	2574.40	165,295	2,272	0	2,686	19	405	0	20	0	-8	
Total				4,411	31,810	73,629	589	99,653	0	661	0	-1,303

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake	
				Natural	Project 1/			
Dec 31	1522.91	24,496						
1	1514.25	20,857	-3,639	3,649	0	3,926	0	3,363
2	1516.45	21,753	896	5,611	0	1,458	0	3,257
3	1515.31	21,286	-467	3,691	0	722	0	3,435
4	1514.70	21,039	-247	1,547	0	1,797	0	0
5	1514.91	21,124	85	4,004	0	558	0	3,361
6	1515.67	21,433	309	3,543	0	0	0	3,234
7	1518.44	22,581	1,148	5,721	0	1,232	0	3,341
8	1514.86	21,103	-1,478	2,832	0	1,398	0	2,911
9	1516.23	21,662	559	5,649	0	1,373	0	3,718
10	1509.72	19,077	-2,585	555	0	0	0	3,140
11	1510.09	19,219	142	1,788	0	1,714	0	0
12	1514.84	21,095	1,876	3,641	0	1,642	0	0
13	1513.40	20,516	-579	3,474	0	1,504	0	2,549
14	1515.80	21,486	970	3,308	0	22	0	2,317
15	1515.45	21,343	-143	3,990	0	1,871	0	2,261
16	1517.20	22,063	720	3,845	0	730	0	2,395
17	1512.05	19,982	-2,081	369	0	0	0	2,452
18	1510.73	19,466	-516	395	0	875	0	0
19	1514.65	21,018	1,552	2,402	0	895	0	45
20	1515.10	21,201	183	4,329	0	1,582	0	2,564
21	1514.49	20,954	-247	3,779	0	1,404	0	2,623
22	1514.20	20,837	-117	3,712	0	1,151	0	2,679
23	1518.60	22,648	1,811	4,497	0	0	0	2,685
24	1510.56	19,400	-3,248	625	0	1,347	0	2,525
25	1507.49	18,231	-1,169	491	0	1,718	0	0
26	1517.20	22,063	3,832	4,832	0	901	0	-99
27	1517.41	22,150	87	4,166	0	0	0	4,079
28	1516.51	21,778	-372	4,129	0	1,215	0	3,287
29	1519.07	22,846	1,068	4,104	0	0	0	3,035
30	1520.34	23,386	540	4,570	0	775	0	3,256
31	1513.73	20,648	-2,738	405	0	0	0	3,143
Total			-3,848	99,653	0	31,810	0	-81

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay /1		Natural	Deliveries		
				Natural	Project				
Dec 31	1502.03	295,468							
1	1502.70	296,889	1,421	0	3,363	1	2,054	0	
2	1503.36	298,293	1,404	0	3,257	1	1,787	0	
3	1504.17	300,022	1,729	0	3,435	1	1,631	5	
4	1503.33	298,230	-1,792	0	0	1	1,810	5	
5	1504.08	299,830	1,600	0	3,361	1	1,720	5	
6	1504.71	301,177	1,347	0	3,234	1	1,762	5	
7	1505.41	302,679	1,502	0	3,341	1	1,834	4	
8	1505.89	303,712	1,033	0	2,911	1	1,885	0	
9	1506.67	305,394	1,682	0	3,718	1	1,874	0	
10	1507.24	306,626	1,232	0	3,140	1	2,004	0	
11	1506.28	304,552	-2,074	0	0	1	2,029	0	
12	1505.35	302,550	-2,002	0	0	1	2,049	0	
13	1505.56	303,002	452	0	2,549	1	2,048	0	
14	1505.69	303,281	279	0	2,317	1	2,070	0	
15	1505.75	303,410	129	0	2,261	1	2,064	0	
16	1505.84	303,604	194	0	2,395	1	2,152	0	
17	1506.07	304,099	495	0	2,452	1	2,052	0	
18	1505.11	302,035	-2,064	0	0	1	2,053	0	
19	1504.13	299,936	-2,099	0	0	1	2,074	0	
20	1504.25	300,193	257	0	2,564	1	2,135	0	
21	1504.22	300,129	-64	0	2,623	1	2,712	0	
22	1504.25	300,193	64	0	2,679	1	2,575	0	
23	1504.46	300,642	449	0	2,685	1	2,110	0	
24	1504.68	301,113	471	0	2,525	1	2,099	0	
25	1503.72	299,061	-2,052	0	0	1	2,021	0	
26	1502.72	296,932	-2,129	0	0	1	2,193	0	
27	1503.50	298,592	1,660	0	4,079	1	2,299	0	
28	1504.01	299,680	1,088	0	3,287	1	2,191	0	
29	1504.40	300,514	834	0	3,035	1	2,143	0	
30	1504.91	301,606	1,092	0	3,256	0	2,158	0	
31	1505.28	302,400	794	0	3,143	0	2,196	0	
Total		6,932	0	71,610	29	63,784	24	-899	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Local	Article 12E Table A Carryover	Extended Table A Carryover		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		74,996							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07		73,629							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	0							
			14.10	United Water Conservation Dist.	0							
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(31,810 AF pumpback) 2/	99,653							
29J	W4	Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	26		26		7,500	6,396 47,632 1,420 656 154		
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWD - 78"	13,896							
				MWD - 132"	47,632							
				Castaic Lake WA - T1	1,420							
				Castaic Lake WA	656							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	24							
				Reach 30 Subtotal:	63,128		0	26	0	7,500	55,602	
	W6	Castaic Lagoon		Recreation to Lagoon	0							
		Castaic Lagoon Outlet	31.87									

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River			
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel					
Dec 31	3350.42	70,572												
1	3351.12	71,235	663	2,910	0	11	5	0	2,197	0	1	-55	0	
2	3351.12	71,235	0	2,689	0	10	6	0	2,641	0	0	-52	0	
3	3351.67	71,758	523	2,612	0	10	6	0	2,201	0	1	109	0	
4	3352.00	72,073	315	2,645	0	9	7	0	2,397	0	0	65	0	
5	3352.41	72,465	392	2,628	0	8	8	0	2,493	0	1	258	0	
6	3352.12	72,188	-277	2,124	0	7	6	0	2,763	0	0	361	0	
7	3351.70	71,787	-401	2,400	0	7	7	0	2,753	0	1	-47	0	
8	3351.50	71,596	-191	2,538	0	6	8	0	2,858	0	0	131	0	
9	3351.20	71,311	-285	2,378	0	6	4	1	2,818	0	1	155	0	
10	3351.30	71,406	95	2,799	0	5	5	0	2,811	0	0	107	0	
11	3351.40	71,501	95	3,038	0	5	5	0	2,985	0	1	43	0	
12	3351.60	71,691	190	2,145	0	5	4	0	2,170	0	0	214	0	
13	3351.70	71,787	96	2,107	0	5	5	0	2,103	0	1	93	0	
14	3351.50	71,596	-191	1,936	0	4	4	0	2,205	0	0	78	0	
15	3351.00	71,121	-475	1,935	0	4	4	0	2,319	0	1	-90	0	
16	3350.50	70,648	-473	2,322	0	4	5	0	2,872	0	0	78	0	
17	3351.10	71,216	568	3,213	0	3	4	0	3,061	0	1	418	0	
18	3351.20	71,311	95	3,172	0	3	4	0	3,009	0	0	-67	0	
19	3351.50	71,596	285	3,172	0	3	4	0	2,887	0	1	2	0	
20	3351.70	71,787	191	2,994	0	3	3	1	2,735	0	59	-8	0	
21	3351.40	71,501	-286	3,026	0	3	4	0	3,191	0	151	31	0	
22	3351.90	71,977	476	3,246	0	3	4	0	3,072	0	200	504	0	
23	3351.60	71,691	-286	2,724	0	2	4	0	2,828	0	200	20	0	
24	3351.80	71,882	191	2,674	0	2	4	0	2,601	0	200	320	0	
25	3351.70	71,787	-95	2,724	0	3	4	0	2,706	0	200	88	0	
26	3350.50	70,648	-1,139	2,017	0	3	4	0	3,002	0	200	47	0	
27	3350.20	70,365	-283	2,710	0	3	4	0	2,836	0	200	44	0	
28	3350.00	70,176	-189	2,767	0	3	4	0	3,044	0	101	191	0	
29	3349.70	69,894	-282	2,497	0	3	4	0	2,903	0	46	172	0	
30	3349.55	69,753	-141	2,803	0	2	4	0	2,997	0	0	55	0	
31	3350.30	70,459	706	3,715	0	3	4	0	3,012	0	0	4	0	
Total				-113	82,660	0	148	148	2	84,470	0	1,567	3,269	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation
(in acre-feet except as noted)

Capacity: 131,452 ac-ft

January 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Dec 31	1579.70	108,360				
1	1580.09	109,205	845		69	
2	1580.52	110,138	933		69	
3	1580.93	111,031	893		68	
4	1581.32	111,883	852		68	
5	1581.77	112,869	986		70	
6	1582.21	113,836	967		68	
7	1582.57	114,629	793		69	
8	1582.87	115,291	662		119	
9	1583.09	115,778	487		9	
10	1583.25	116,132	354		10	
11	1583.37	116,398	266		9	
12	1583.63	116,976	578		54	
13	1583.80	117,354	378		9	
14	1583.92	117,621	267		9	
15	1584.00	117,799	178		9	
16	1584.10	118,022	223		9	
17	1584.27	118,401	379		9	
18	1584.37	118,625	224		9	
19	1584.50	118,915	290		9	
20	1584.62	119,184	269		9	
21	1584.74	119,452	268		9	
22	1584.80	119,577	125		9	
23	1584.80	119,587	10		9	
24	1584.81	119,609	22		9	
25	1584.81	119,609	0		9	
26	1584.87	119,744	135		10	
27	1584.80	119,587	-157		10	
28	1584.88	119,766	179		9	
29	1584.86	119,721	-45		9	
30	1584.85	119,699	-22		9	
31	1584.89	119,788	89		9	
Total			11,428	14,055	855	-1,772

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Transfer	Article 12E	Extended Table A Carryover		
	No.	Structure	Mile						Table A Carryover			
17E	40	Edmonston Pumping Plant	293.45		164,914							
	41		298.65	Kern County Water Agency Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 3,377 AF flow down Cottonwood Chute)	86,123				404			
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West	0							
			315.57	AVEK 225th Street West	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA								
				Fairmont	404							
				Mojave Water Agency Fairmont	40							
	Check No. 46		323.84									
				Reach 19 Total:	444		40	0	404	0		
20A	47	Check No. 47	326.77						21			
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	21							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
20B	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0				2,519			
				Antelope Valley-East Kern WA	2,519							
			339.68	Antelope Valley-East Kern WA	15							
	Check No. 50		341.51									
	51	Check No. 51	342.07									
20B	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use				36			
			343.50	Antelope Valley-East Kern WA Temporary 10 & 12	36							
		Check No. 52	343.74									
	53		346.98	PWD Palmdale	251							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	88							
21	Check No. 53		348.17						88			
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
22A			354.97	Littlerock Creek I.D.	0				227			
	57	Check No. 57	356.93									
	58		357.60	Antelope Valley-East Kern WA	0							
			357.72	Antelope Valley-East Kern WA 96th Street East	227							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	0							

Table 31b. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

January 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending					Table A Amount	Recreation	Ex-change	Article 12E Table A Carryover	Extended Table A Carryover				
	No.	Structure	Mile											
22B	58	Pearblossom Pumping Plant	360.61		86,484	152								
	59	Check No. 59	366.09											
	60		366.50		Antelope Valley-East Kern WA		0							
		Check No. 60	373.94											
	61	Check No. 61	379.00											
	62	Check No. 62	384.26											
	63	Check No. 63	389.20		Mojave Water Agency	152								
			394.60		Mojave River									
	66		Mojave Water Agency	401.10	Temporary	0	350							
			Morongo 24" and 42"											
			Mojave Water Agency		Hesperia									
23		Check No. 66	403.41											
24	67	Mojave Siphon	405.48		Las Flores Ranch	0	148	2						
		Mojave Siphon Powerplant	405.65											
	67	Silverwood Lake	407.65		Crestline Lake Arrowhead Water Agency	148								
					Calif. State Park									
					Silverwood Agency (Rec.)	2								
25		San Bernardino Tunnel Intake	407.70			84,470								
26A	68	Devil Canyon Afterbay Control Structures	412.88		MWD-SC Rialto	7,551	42	11,122	7,551	11,122				
					Desert Water Agency (MWD Wheeling Exchange)	11,122								
					San Gabriel Valley Water District	0								
					Coachella Valley WD (MWD Wheeling Exchange)	6,745								
					San Bernardino Valley MWD 24" and 72"	0								
					San Bernardino Valley MWD 48"	0								
					MWD (SBVMWD Exchange)	23,666								
					San Gorgonio Pass Water Agency	42								
28G	69	Santa Ana Valley Pipeline	425.46											
28H			433.06		MWD-SC Box Springs	4,860	42	17,305	4,860	17,305				
			440.05		MWD-SC Perris Bypass Pipeline	17,305								
			442.00		MWD-SC 18"	282								
28J	69	Lake Perris	443.44		MWD-SC 54"	468	42	282	468	468				
					MWD-SC 78"	86								
					Calif. State Park	19								
					Lake Perris Recreation	19		19		86				
					MWD Total:	135,187	0	0	0	32,867	102,320			

Table 32. Water Quality At Selected SWP Locations

January 2004

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	40	70	67	150	80	89	91	89	81
Antimony	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.001	0.002	0.001	0.002	0.001	0.002	0.002
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.6	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.02	0.11	0.52	0.18	0.17	0.23	0.32	0.35
Calcium	mg/l	8	10	17	52	23	25	33	24	22
Carbon - Dissolved Organic	mg/l as C	NR	12	5	4	5	4	2	3	2
Carbon - Total Organic	mg/l as C	NR	13	5	4	5	4	2	3	2
Chloride	mg/l	1	13	37	178	64	54	69	99	105
Chromium	mg/l	0.003	0.005	0.005	0.009	0.004	0.005	0.002	0.007	0.005
Copper	mg/l	<0.001	0.004	0.003	0.002	0.002	0.002	<0.001	0.002	0.002
Fluoride	mg/l	<0.1	0.1	<0.1	0.1	0.1	<0.1	0.1	0.1	0.1
Hardness	mg/l as CaCO ₃	36	58	84	234	108	122	111	118	113
Iron	mg/l	0.021	0.226	0.042	<0.005	0.026	0.013	0.005	0.016	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	8	10	28	13	16	7	15	14
Manganese	mg/l	<0.005	0.029	0.012	<0.005	0.010	<0.005	<0.005	<0.005	0.024
Nitrate + Nitrite	mg/l as N	0.09	0.14	0.93	NR	NR	1.60	NR	1.50	0.86
Phosphorus-Ortho	mg/l as P	<0.01	0.11	0.07	NR	NR	0.13	NR	0.11	0.08
Phosphorus-Total	mg/l	0.01	0.21	0.11	NR	NR	0.14	NR	0.12	0.08
Selenium	mg/l	NR	<0.001	<0.001	NR	NR	NR	0.001	NR	NR
Sodium	mg/l	3	20	25	138	46	71	54	67	65
Specific Conductance	µS/cm	89	202	307	1140	454	623	508	561	578
Sulfate	mg/l	2	8	27	167	53	29.5	46	49	47
Total Dissolved Solids	mg/l	55	128	185	686	300	374	305.5	350	363
Turbidity	NTU	6	53	22	20	18	6	3	3	1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

January 2004

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millSiemens/cm									Cl in mg/l	
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	(Antioch) Daily Mean		Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	
	Hi		Half		md	md	md	md	14dm	md	14dm	md	md	md	md
1	4.37	1.87	44,283	44,283	41,077	0.46	0.43	0.20	0.22	0.45	0.65	0.51	0.53	0.57	157
2	3.60	1.57	56,922	50,603	50,175	0.46	0.20	0.22	0.22	0.41	0.61	0.49	0.59	0.63	155
3	3.44	1.50	66,533	55,913	58,217	0.44	0.20	0.20	0.22	0.38	0.58	0.51	0.70	0.59	160
4	3.30	1.32	64,239	57,994	59,834	0.43	0.21	0.18	0.22	0.34	0.55	0.45	0.76	0.59	155
5	3.24	1.27	62,561	58,907	58,108	0.35	0.21	0.17	0.21	0.32	0.51	0.36	0.88	0.55	157
6	3.52	1.46	58,422	58,826	54,905	0.36	0.18	0.17	0.21	0.30	0.48	0.35	1.02	0.53	167
7	3.83	1.77	48,213	57,310	48,915	0.34	0.17	0.16	0.20	0.29	0.45	0.33	1.14	0.53	167
8	3.74	1.72	41,768	55,368	43,762	0.33	0.17	0.17	0.19	0.28	0.43	0.37	1.24	0.53	163
9	3.89	1.78	37,651	53,399	40,273	0.31	0.15	0.17	0.19	0.27	0.40	0.44	1.33	0.54	162
10	3.35	1.56	36,955	51,755	39,001	0.30	0.16	0.18	0.18	0.25	0.38	0.43	1.41	0.54	168
11	3.20	1.52	36,994	50,413	39,438	0.29	0.16	0.17	0.18	0.25	0.36	0.39	1.49	0.55	167
12	2.58	1.34	37,274	49,318	39,748	0.28	0.15	0.17	0.18	0.24	0.34	0.40	1.55	0.58	162
13	2.40	0.98	38,440	48,481	40,964	0.28	0.14	0.17	0.18	0.23	0.32	0.47	1.61	0.62	109
14	2.51	0.82	36,789	47,646	39,640	0.27	0.14	0.16	0.18	0.22	0.30	0.30	1.67	0.61	94
15	2.93	0.91	30,344	46,492	34,320	0.26	0.14	0.17	0.18	0.22	0.29	0.34	1.71	0.53	85
16	3.14	0.94	27,092	45,280	31,320	0.23	0.27	0.17	0.17	0.22	0.27	0.36	1.75	0.52	81
17	3.41	1.05	24,464	44,055	29,238	0.24	0.31	0.18	0.17	0.22	0.26	0.34	1.79	0.51	78
18	3.59	1.16	22,174	42,840	27,379	0.24	0.39	0.19	0.17	0.22	0.25	0.33	1.82	0.52	70
19	3.69	1.25	20,166	41,646	25,640	0.25	0.46	0.20	0.17	0.23	0.25	0.34	1.84	0.52	69
20	3.84	1.35	18,293	40,479	24,015	0.26	0.63	0.20	0.18	0.23	0.24	0.33	1.88	0.53	58
21	3.69	1.25	16,598	39,342	22,542	0.27	0.64	0.21	0.18	0.23	0.24	0.38	1.91	0.54	50
22	3.47	1.13	15,032	38,237	21,300	0.27	0.58	0.22	0.18	0.23	0.23	0.37	1.93	0.53	44
23	3.34	1.10	13,762	37,173	20,193	0.27	0.57	0.22	0.19	0.23	0.23	0.37	1.92	0.54	43
24	3.21	1.18	12,771	36,156	19,205	0.28	0.61	0.22	0.19	0.23	0.23	0.36	1.92	0.54	41
25	2.67	1.04	13,177	35,237	18,900	0.27	0.52	0.22	0.19	0.23	0.23	0.36	1.93	0.55	37
26	2.36	0.84	12,943	34,379	18,330	0.28	0.41	0.22	0.20	0.23	0.23	0.31	1.94	0.59	38
27	2.63	0.88	12,242	33,559	17,791	0.29	0.48	0.23	0.20	0.24	0.23	0.31	1.94	0.57	36
28	2.45	0.62	12,239	32,798	17,409	0.29	0.41	0.23	0.21	0.24	0.23	0.30	1.95	0.53	36
29	2.45	0.56	13,070	32,118	17,995	0.28	0.45	0.23	0.21	0.24	0.23	0.30	1.95	0.54	35
30	2.81	0.78	13,738	31,505	19,593	0.28	0.70	0.23	0.21	0.25	0.23	0.32	1.93	0.48	37
31	2.66	0.84	15,334	30,983	20,927	0.29	0.73	0.23	0.22	0.25	0.23	0.33	1.91	0.50	36

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

dm = Daily Mean

s = Balanced water conditions with storage withdrawals.

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

January 2004

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 16, 2003	None Detected	
California Aqueduct At Banks Pumping Plant	September 16, 2003	None Detected	
O'Neill Forebay Outlet Check 13	September 16, 2003	None Detected	
Delta Mendota Canal At McCabe Road	September 16, 2003	None Detected	
California Aqueduct Near Kettleman City (Check 21)	September 16, 2003	None Detected	
California Aqueduct At Near Highway 119 (Check 29)	September 16, 2003	None Detected	
California Aqueduct At Tehachapi Afterbay (Check 41)	September 16, 2003	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

January 2004

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	5,324,544	0	16,079	21,847	3,197,184	3,197,184	84,095	717
2	6,935,904	576	20,594	27,517	3,591,552	3,591,552	99,040	728
3	4,262,112	4,608	18,214	25,046	3,930,048	3,930,048	93,660	705
4	4,476,672	0	18,095	26,033	3,923,136	3,923,136	84,470	703
5	5,902,560	3,744	18,438	29,113	3,825,216	3,825,216	81,200	739
6	4,971,168	0	18,165	26,481	3,923,904	3,923,904	87,785	753
7	4,260,384	288	15,617	22,309	3,995,136	3,995,136	95,870	755
8	5,050,368	0	19,257	27,608	3,996,480	3,996,480	101,770	750
9	4,329,216	0	15,519	23,723	3,999,744	3,999,744	106,880	733
10	1,926,720	0	12,285	21,917	3,696,960	3,696,960	105,920	703
11	2,261,088	0	10,472	20,636	3,925,248	3,925,248	104,710	700
12	3,050,784	0	9,828	21,476	3,923,136	3,923,136	105,725	822
13	2,951,136	0	9,352	18,256	3,922,560	3,922,560	128,895	848
14	2,717,568	0	15,771	25,823	3,930,432	3,930,432	205,290	768
15	2,569,248	0	12,873	22,512	3,929,088	3,929,088	214,650	772
16	2,143,296	0	9,583	20,272	3,932,160	3,932,160	224,365	762
17	4,231,008	0	9,030	19,096	3,994,176	3,994,176	205,270	709
18	1,898,208	0	8,274	19,509	4,021,632	4,021,632	190,195	704
19	3,262,752	0	10,234	22,162	3,888,384	3,888,384	201,615	729
20	4,046,976	0	10,234	20,083	4,026,240	4,026,240	201,835	728
21	3,171,744	0	9,835	20,083	3,962,112	3,962,112	218,520	747
22	1,552,896	0	8,610	17,745	3,961,344	3,961,344	209,495	716
23	2,117,952	0	7,518	14,462	3,930,624	3,930,624	223,475	711
24	2,325,024	232,992	7,000	14,469	3,928,512	3,928,512	209,280	706
25	1,782,432	2,116,800	6,419	14,462	3,989,376	3,989,376	203,910	706
26	2,085,984	1,630,080	9,212	18,207	3,989,376	3,989,376	192,550	710
27	1,544,256	288	10,283	20,076	3,924,288	3,924,288	185,965	714
28	2,371,104	0	8,939	18,809	3,981,888	3,981,888	170,825	721
29	2,361,312	0	10,269	20,279	3,981,312	3,981,312	178,140	731
30	2,393,280	0	10,276	20,293	3,982,656	3,982,656	178,560	713
31	786,528	180,576	9,352	20,286	3,985,728	3,985,728	178,380	713
Total	99,064,224	4,169,952	375,627	660,590	121,189,632	121,189,632	4,872,340	22,716

Table 36. San Luis Field Division Energy Data

(in kWh)

January 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	966,240	822,240	0	0	4,071,456	615,456
2	767,808	632,808	0	0	3,068,640	1,676,640
3	880,416	745,416	0	0	4,055,616	2,423,616
4	1,127,808	983,808	0	0	5,636,160	2,180,160
5	1,079,136	944,136	0	0	2,886,048	1,494,048
6	884,016	749,016	0	0	4,615,776	2,887,776
7	879,408	744,408	0	0	5,023,584	2,644,584
8	1,012,608	877,608	0	0	5,241,600	2,844,600
9	1,117,440	1,117,440	0	0	3,742,848	1,345,848
10	1,153,008	1,153,008	0	0	5,124,096	2,821,096
11	1,296,864	1,296,864	0	0	5,179,104	667,104
12	876,240	876,240	0	0	3,706,272	1,309,272
13	988,992	988,992	0	0	4,605,696	2,208,696
14	1,110,816	909,816	0	0	3,139,488	1,447,488
15	1,098,288	897,288	0	0	3,467,232	1,775,232
16	1,142,928	941,928	0	0	4,386,240	2,694,240
17	1,351,440	1,078,440	0	0	4,383,648	2,819,648
18	1,472,976	1,208,976	0	0	4,709,376	1,397,376
19	1,188,288	915,288	0	0	2,437,056	1,195,056
20	1,219,680	946,680	0	0	3,634,560	2,392,560
21	1,169,280	896,280	1,728	1,728	3,708,864	2,466,864
22	1,174,176	691,176	0	0	4,898,880	3,656,880
23	1,278,864	795,864	0	0	2,941,344	1,699,344
24	1,374,480	891,480	0	0	2,906,784	1,756,784
25	1,289,232	809,232	0	0	4,342,752	2,182,752
26	1,116,576	633,576	0	0	3,368,160	2,558,160
27	1,163,664	680,664	0	0	4,143,456	3,333,456
28	1,260,864	777,864	0	0	4,217,760	3,317,760
29	1,410,912	927,912	0	0	4,468,608	3,253,608
30	1,425,024	942,024	0	0	3,504,960	2,289,960
31	1,474,128	991,128	0	0	3,424,896	2,299,896
Total	35,751,600	27,867,600	1,728	1,728	125,040,960	67,655,960

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

January 2004

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	9,394	23,216	42,534	39,096	43,218	1,422,576	1,646,352	3,701,088	13,852,080
2	8,386	21,112	40,068	38,214	41,022	1,241,352	1,390,176	3,135,456	11,518,560
3	8,414	20,472	25,920	23,994	26,604	1,413,936	1,595,520	3,574,656	13,437,360
4	6,270	14,256	31,572	29,754	32,562	1,578,672	1,796,544	4,081,824	15,276,240
5	6,174	14,376	21,258	21,852	23,166	1,284,912	1,412,352	3,151,872	11,428,560
6	6,748	16,672	32,364	29,736	31,968	1,103,400	1,257,984	2,856,960	10,757,520
7	7,818	19,088	28,944	26,874	29,574	1,262,304	1,432,512	3,259,872	12,150,000
8	6,744	16,680	29,448	27,972	30,582	1,252,584	1,410,552	3,204,864	11,802,960
9	5,606	13,856	30,078	28,530	30,888	1,438,128	1,554,048	3,535,488	13,062,960
10	6,060	14,128	32,580	30,132	33,372	1,379,520	1,582,560	3,608,352	13,494,240
11	7,080	17,176	28,206	26,496	28,278	1,638,000	1,830,888	4,163,616	15,390,000
12	5,634	12,472	19,152	18,846	20,286	956,448	1,074,168	2,422,080	8,826,480
13	6,434	14,856	30,870	28,872	30,582	953,352	1,089,216	2,471,040	9,152,640
14	6,102	13,648	26,982	26,316	28,602	954,144	1,068,408	2,392,704	8,785,440
15	5,948	14,384	31,662	29,718	32,184	1,025,352	1,138,608	2,513,952	9,367,920
16	8,608	20,512	42,264	39,816	42,336	1,041,336	1,150,848	2,585,952	9,498,960
17	9,338	24,800	38,268	35,694	39,798	1,441,800	1,543,968	3,463,488	12,923,280
18	7,782	18,200	29,214	27,720	29,952	1,657,728	1,820,376	4,149,792	15,429,600
19	8,714	21,560	34,830	32,724	35,910	1,068,696	1,201,536	2,694,528	9,828,720
20	8,746	21,296	28,818	27,216	28,800	1,322,784	1,440,504	3,248,352	12,116,880
21	8,552	19,776	28,584	27,144	29,358	904,896	1,060,848	2,378,016	8,655,840
22	8,782	22,816	36,666	34,632	38,322	1,038,312	1,165,680	2,645,568	9,835,920
23	9,342	23,064	33,876	31,716	34,236	1,257,408	1,376,928	3,119,904	11,389,680
24	10,932	27,536	47,934	45,072	48,366	1,352,448	1,515,240	3,415,104	12,804,480
25	7,072	16,648	20,934	19,656	21,960	1,493,568	1,668,168	3,771,936	14,076,000
26	8,806	21,992	28,584	27,018	29,718	1,003,320	1,135,080	2,572,992	9,399,600
27	10,200	25,096	29,142	27,198	29,916	1,225,368	1,397,736	3,173,760	11,740,320
28	13,686	36,648	42,660	40,446	43,092	1,368,144	1,500,264	3,407,328	12,608,640
29	11,484	28,656	29,916	28,296	30,978	1,454,544	1,621,440	3,694,464	13,713,120
30	10,072	24,792	29,934	28,566	30,816	1,475,712	1,679,688	3,796,992	13,974,480
31	14,738	37,528	34,074	31,716	35,748	1,644,264	1,792,872	4,071,456	15,253,200
Total	259,666	637,312	987,336	931,032	1,012,194	39,655,008	44,351,064	100,263,456	371,551,680

Table 38. Southern Field Division Energy Data

(in kWh)

January 2004

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	719,712	1,545,264	2,760,000	399,196	2,153,376	2,722,464	240,282
2	701,960	1,562,904	2,760,000	281,512	1,775,916	3,240,192	222,558
3	731,528	1,718,640	2,760,000	369,908	2,086,668	2,729,952	213,612
4	1,027,600	1,756,080	2,760,000	342,412	1,842,816	2,959,488	210,021
5	669,760	1,568,664	2,760,000	285,740	1,595,196	3,074,400	210,693
6	638,960	1,570,608	2,760,000	273,336	1,557,096	3,387,360	167,895
7	821,968	1,582,200	2,760,000	261,688	1,571,232	3,339,840	187,593
8	558,656	1,374,480	2,760,000	335,692	1,986,864	3,459,648	195,636
9	825,888	1,661,544	2,760,000	312,676	1,588,236	3,442,272	194,187
10	816,480	1,798,704	2,760,000	313,656	1,807,260	3,412,224	229,110
11	1,000,552	1,649,016	2,760,000	366,436	2,101,656	3,631,296	247,254
12	438,592	1,139,256	1,800,000	246,932	1,403,028	2,654,112	176,778
13	439,992	1,292,472	1,800,000	266,532	1,506,600	2,624,160	165,417
14	425,712	1,111,320	1,800,000	255,108	1,442,736	2,713,056	159,558
15	493,640	1,114,704	1,800,000	250,824	1,475,544	2,841,504	151,767
16	506,016	1,082,088	1,800,000	249,396	1,481,604	3,519,744	186,270
17	510,720	1,297,368	1,800,000	405,804	2,351,028	3,724,992	262,437
18	844,312	1,145,088	1,800,000	399,056	2,261,220	3,665,280	262,815
19	449,232	1,212,336	1,800,000	310,968	2,033,592	3,507,168	257,460
20	490,280	1,013,832	1,800,000	356,720	2,053,428	3,297,312	243,054
21	201,824	282,888	1,800,000	343,140	2,067,276	3,865,632	252,987
22	153,496	449,784	1,800,000	392,084	2,280,084	3,741,600	260,988
23	615,664	1,590,984	1,800,000	305,032	1,812,612	3,456,096	219,471
24	717,920	1,486,224	1,800,000	351,008	1,872,564	3,207,552	216,426
25	787,136	1,548,432	1,800,000	377,188	1,903,284	3,315,264	216,237
26	523,600	1,649,808	2,640,000	270,172	1,425,204	3,706,368	164,619
27	633,304	1,539,648	2,640,000	308,140	1,874,352	3,452,160	227,472
28	663,712	1,560,456	2,640,000	328,841	2,039,652	3,694,752	231,735
29	717,976	1,506,744	2,640,000	361,116	1,891,188	3,533,280	211,386
30	881,888	1,547,208	2,640,000	311,304	1,888,068	3,619,680	225,246
31	830,312	1,554,696	2,640,000	382,788	2,453,808	3,655,968	303,807
Total	19,838,392	42,913,440	71,400,000	10,014,405	57,583,188	103,194,816	6,714,771